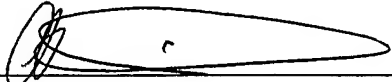




PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Alex Martinez

Applicant : Manabu Matsubara, et al.
Application No. : 10/754,009
Filed : January 8, 2004
Title : REMOTE CONTROL ENGINE STARTING DEVICE FOR VEHICLE

Grp./Div. : N/A
Examiner : N/A

Docket No. : 51766/DBP/A400

TRANSMITTAL OF DRAWINGS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

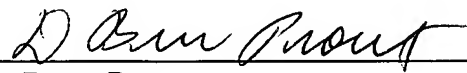
Post Office Box 7068
Pasadena, CA 91109-7068
July 26, 2004

Commissioner:

Enclosed are 11 sheets of drawings for this application. They are submitted as replacement drawings to replace the corresponding drawings as originally filed.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

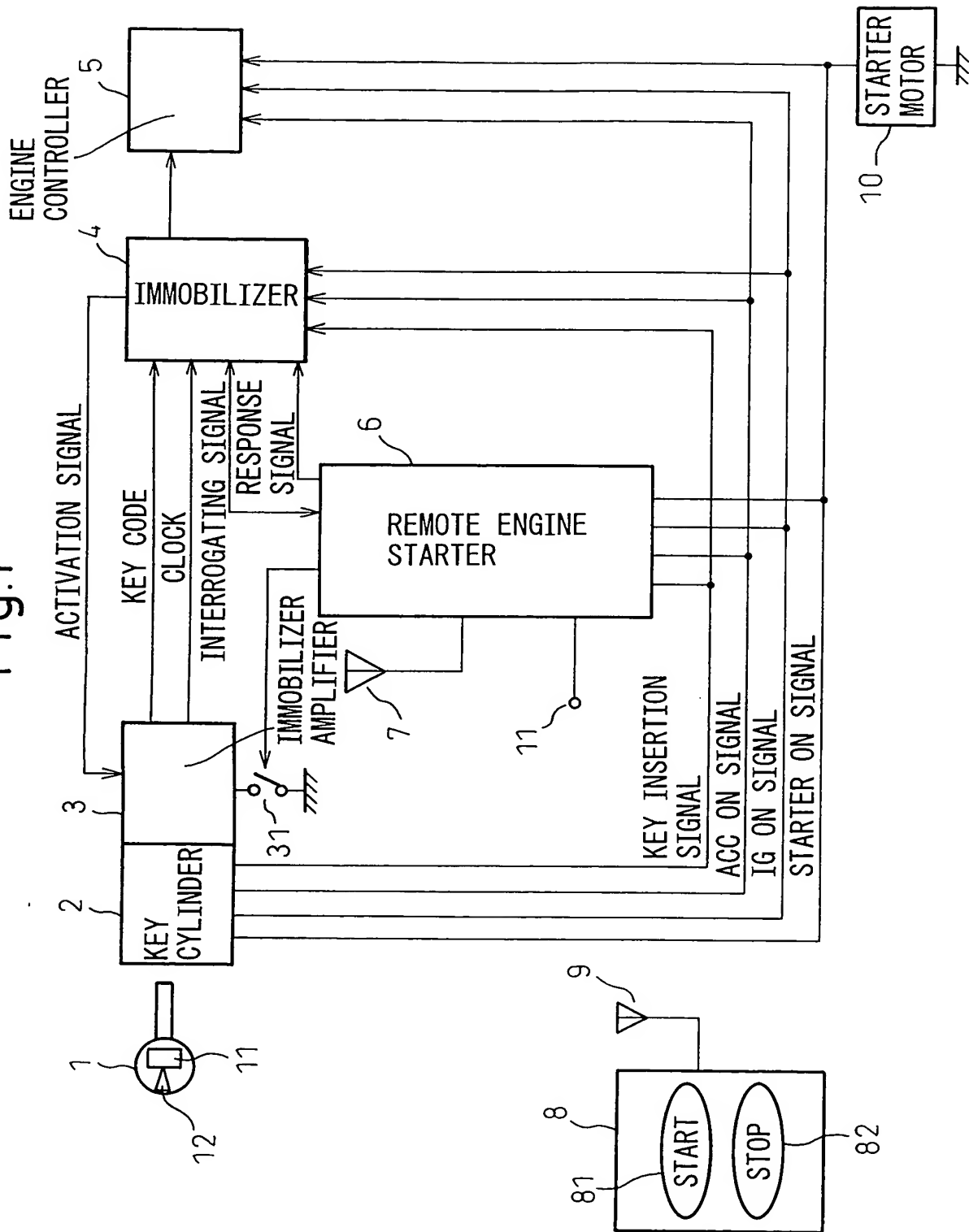
By 

D. Bruce Prout
Reg. No. 20,958
626/795-9900

DBP/aam
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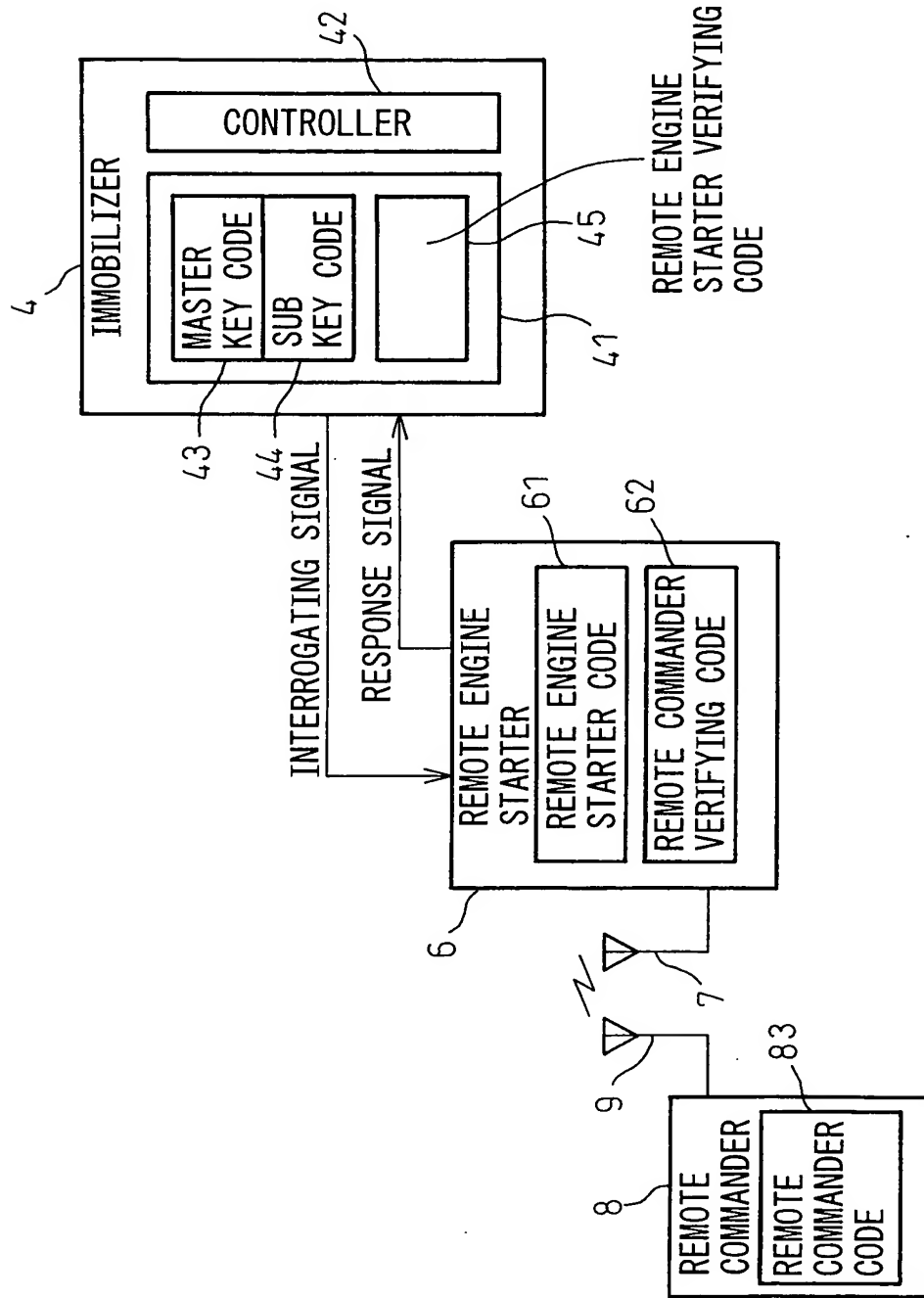
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Fig.1



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Fig.2



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Fig.3A

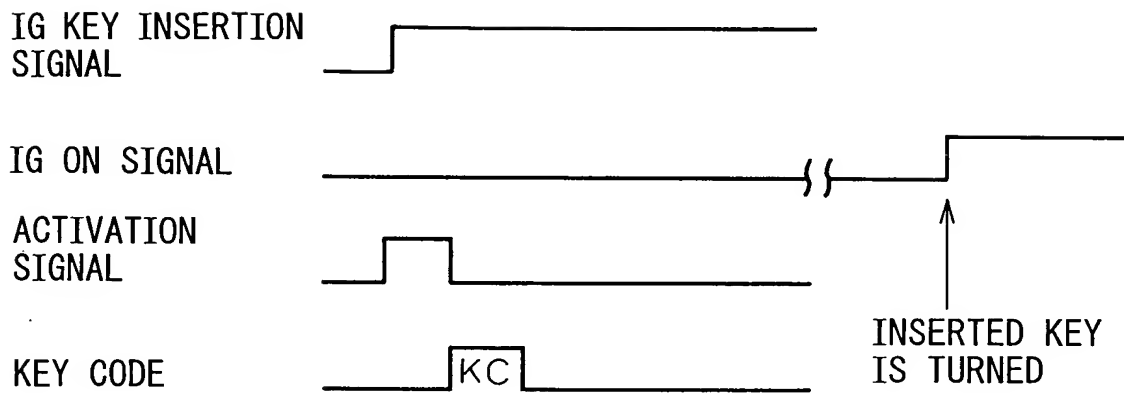
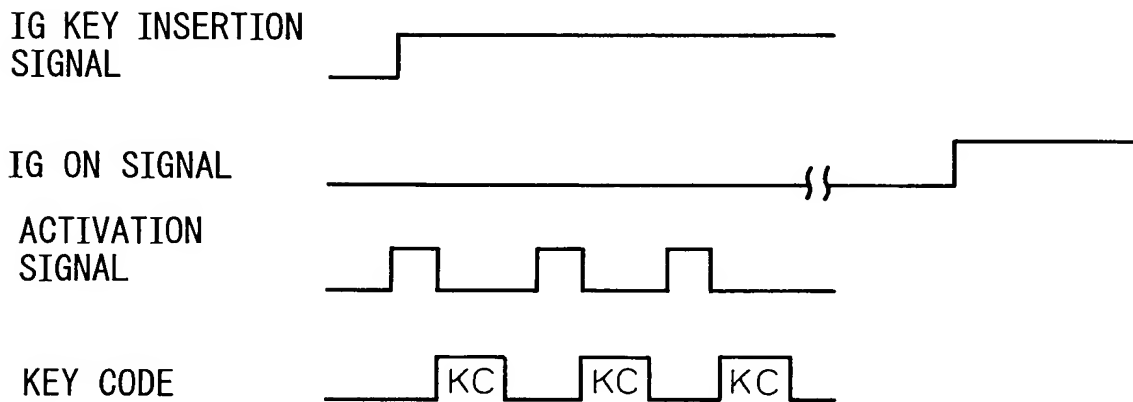


Fig.3B



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Fig.4A

REMOTE ENGINE
STARTING

IG KEY INSERTION
SIGNAL

IG ON SIGNAL

ACTIVATION
SIGNAL

KEY CODE

INTERROGATING
SIGNAL

RESPONSE
SIGNAL

Fig.4B

ENGINE STARTING
BY KEY INSERTION

IG KEY INSERTION
SIGNAL

IG ON SIGNAL

ACTIVATION
SIGNAL

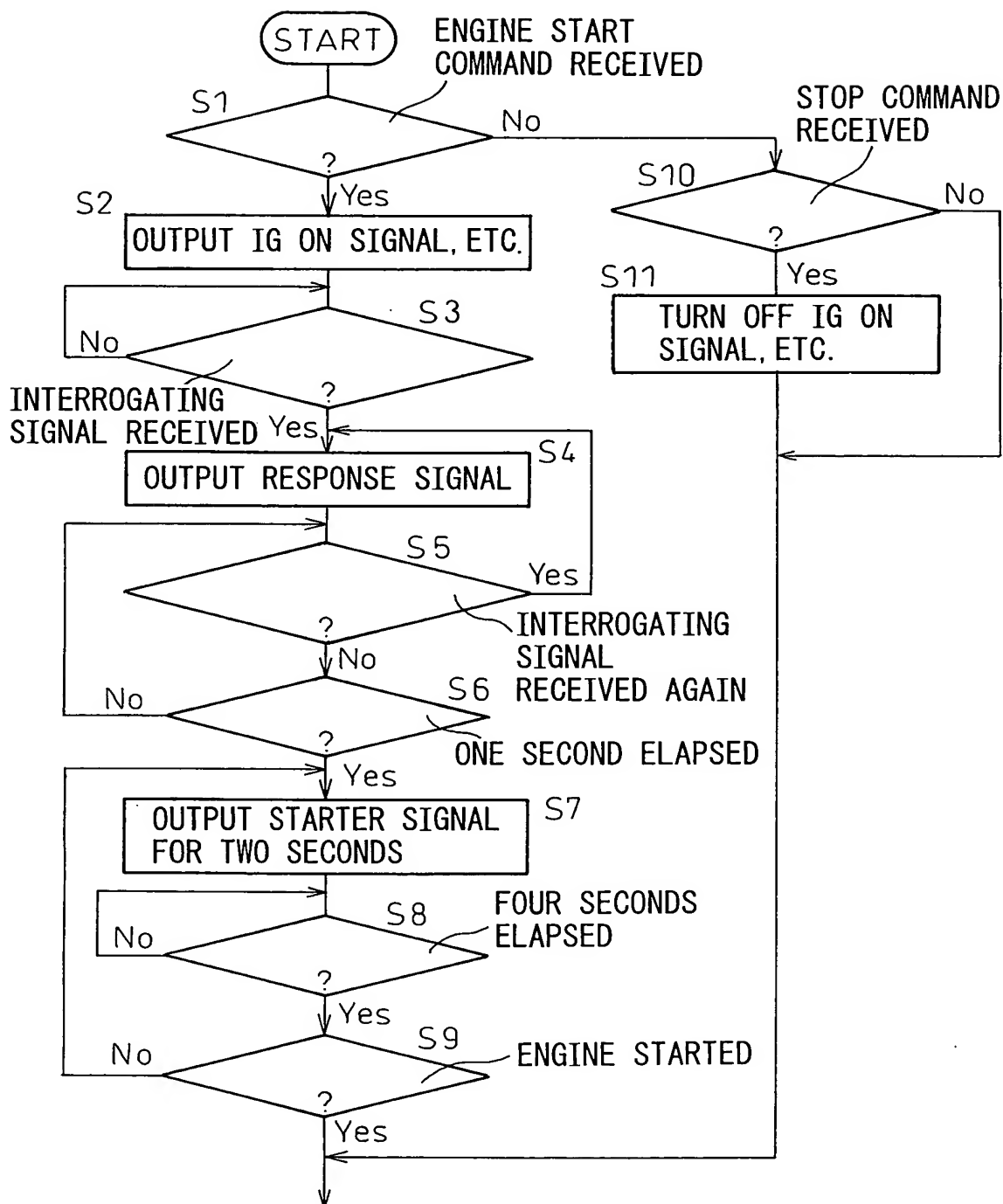
KEY CODE

INTERROGATING
SIGNAL

RESPONSE
SIGNAL

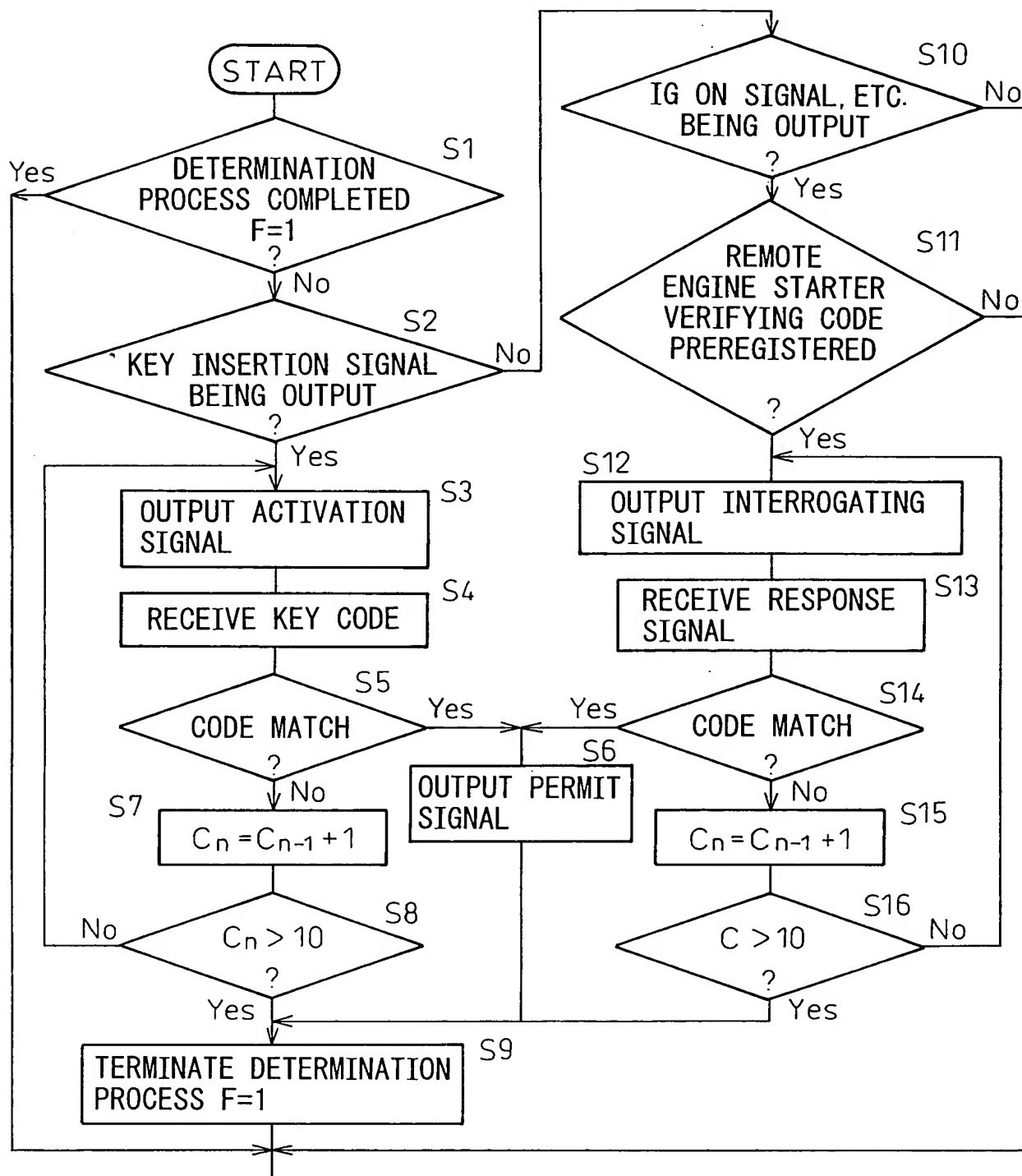
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Fig.5



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Fig.6



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Fig.7A

REMOTE ENGINE
STARTING

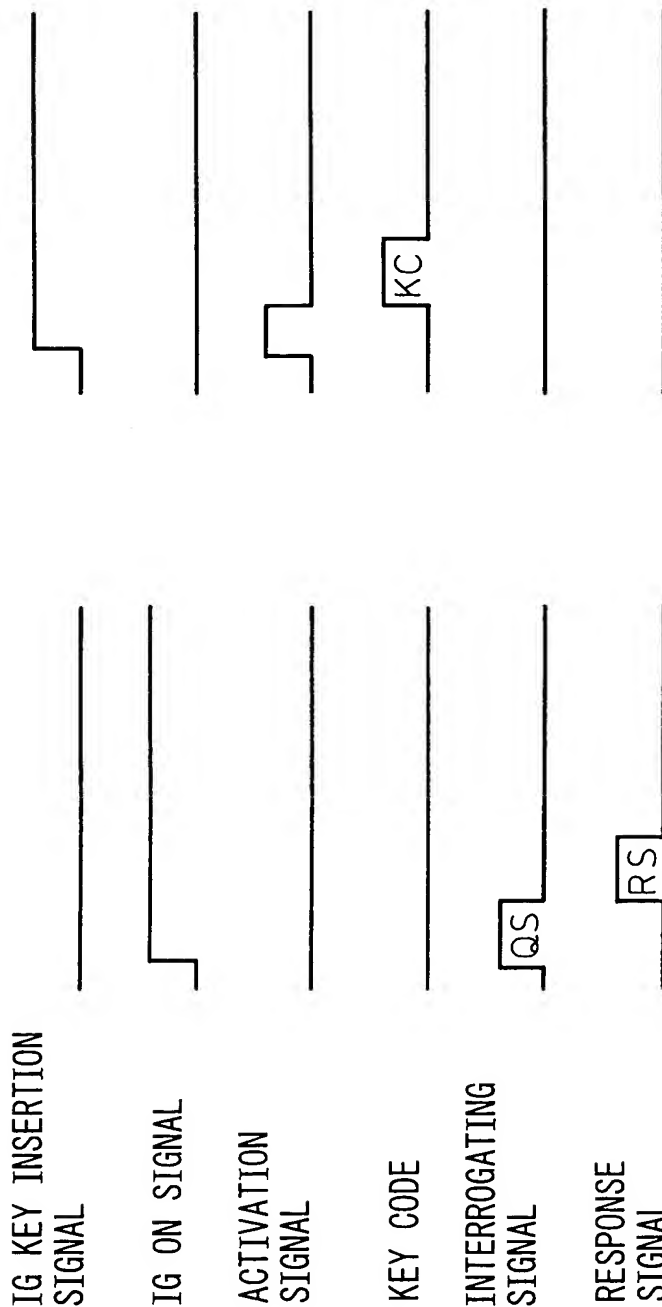
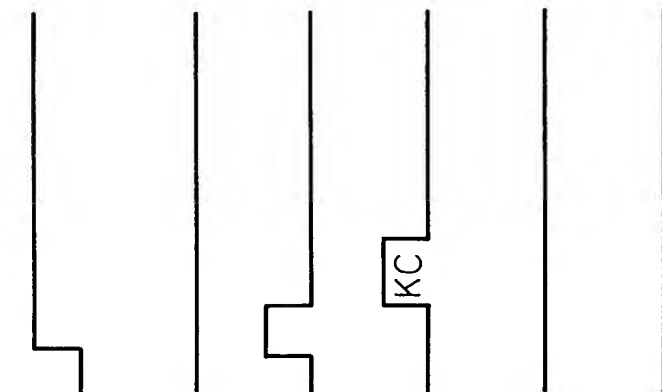


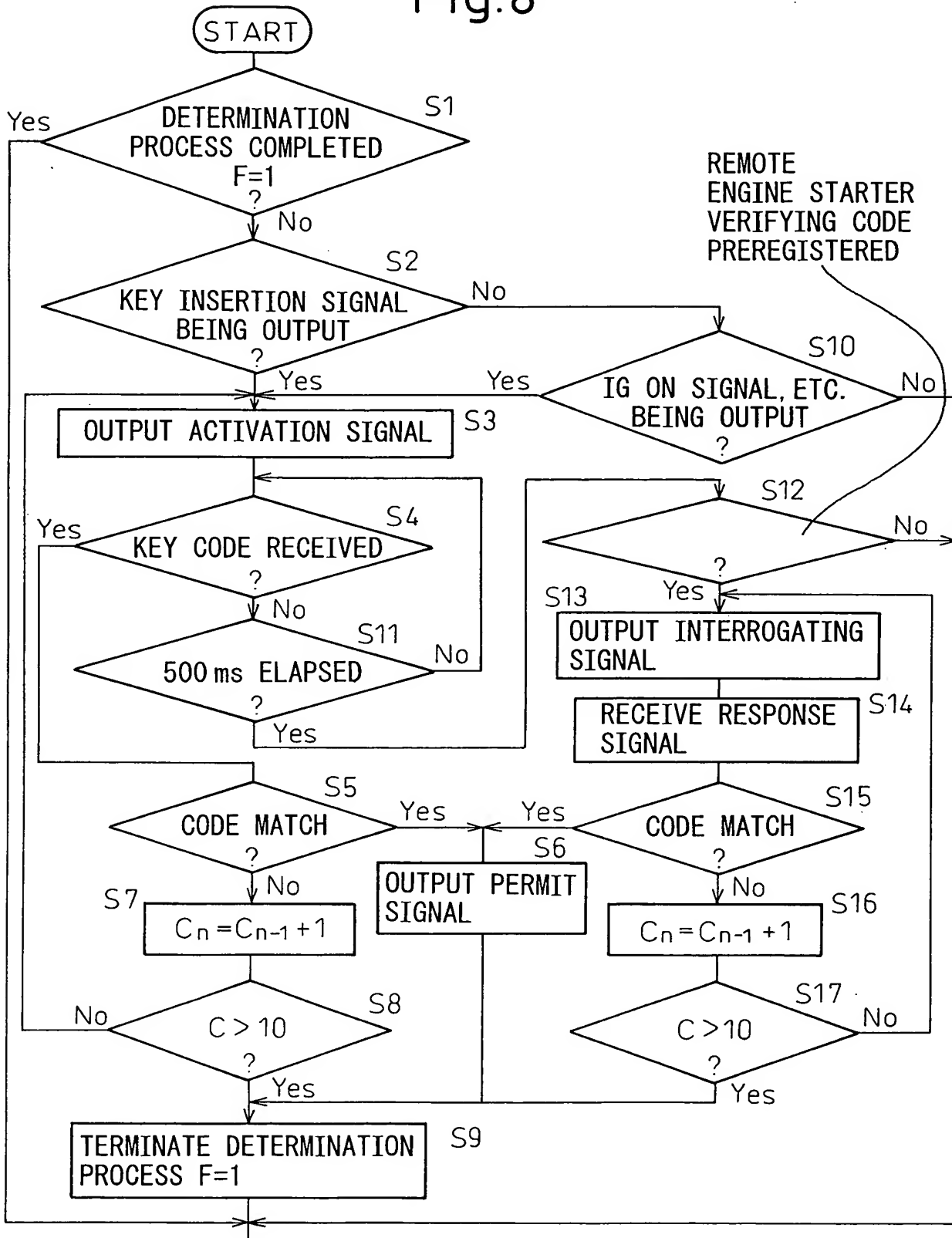
Fig.7B

ENGINE STARTING
BY KEY INSERTION



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Fig.8



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Fig.9A

REMOTE ENGINE
STARTING

Fig.9B

ENGINE STARTING
BY KEY INSERTION

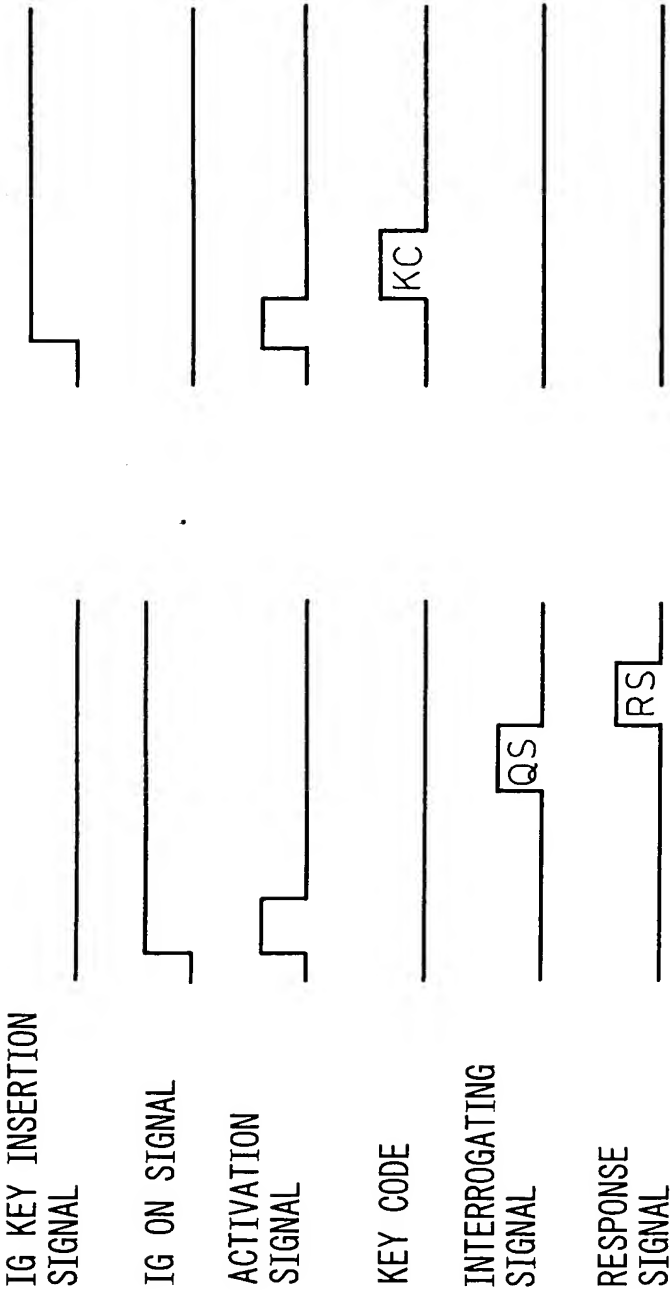
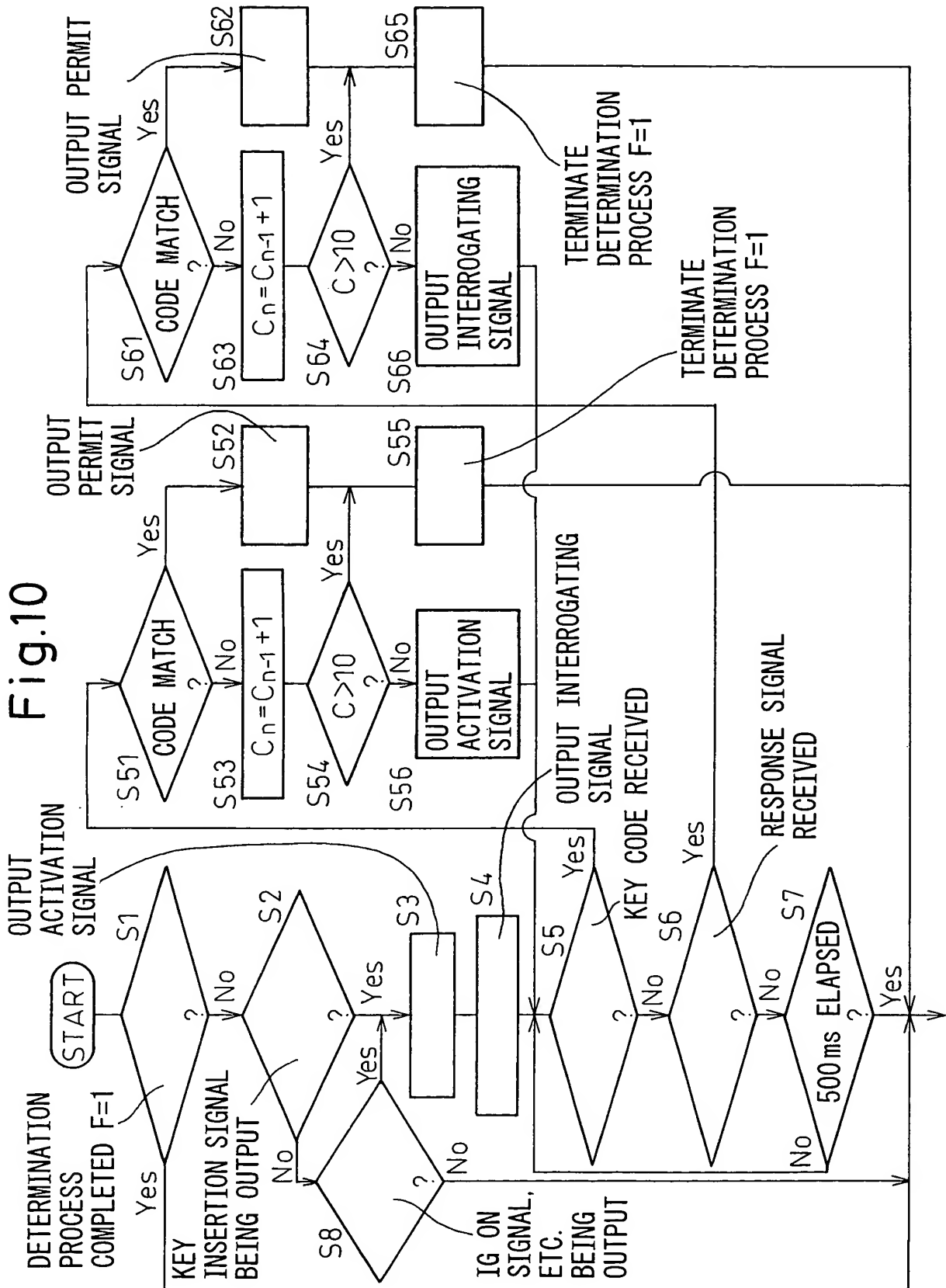


Fig. 10



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Fig.11A

REMOTE ENGINE
STARTING

IG KEY INSERTION
SIGNAL

IG ON SIGNAL

ACTIVATION
SIGNAL

KEY CODE

INTERROGATING
SIGNAL

RESPONSE
SIGNAL

Fig.11B

ENGINE STARTING
BY KEY INSERTION

IG KEY INSERTION
SIGNAL

IG ON SIGNAL

ACTIVATION
SIGNAL

KEY CODE
KC

INTERROGATING
SIGNAL
QS

RESPONSE
SIGNAL
RS